Fall 2015 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2094 Reclamation District No. 2094 Wathal	Overall LMA Rating	Total LMA Miles							
	Α	3.23							
Rated Item		Maintena	nce Deficiancy		Enforc	ement		Design & System Obsolescence	
Rated item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Encroachments					0.01				
Supplemental									
DWR UCIP Field Study					0.04				
LMA Totals:	0.00	0.00	0.00	0.00%	0.05	0.00	0.00	0.00	
Unit No. 01 San Joaquin River RB	Overall Unit Rating	Total Unit Miles							
RD2094	A	2.78							
Patent Have	Maintenance Deficiancy			Enforc	ement	Design & Obsole			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Encroachments					0.01				
Supplemental									
DWR UCIP Field Study					0.04				
Unit Totals:	0.00	0.00	0.00	0.00%	0.05	0.00	0.00	0.00	
Unit No. 02 San Joaquin River	Overall Unit Rating	Total Unit Miles							
RD2094	A	0.45							
Rated Item		Maintena	nce Deficiancy		Enforc	ement	Design & Obsole		
Rated item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
No Items									
Unit Totals:	0.00	0.00	0.00	0.00%					

LMA District Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2094 Wathal

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)			
* Overall LMA Rating (Fall Only)			A				
	** Non-receipt of Su	mmer or Winter Inspe	ection Reports may effect	ct overall annual rating.			
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall. FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.							
Comments							

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2094 Wathal

Water	way Bar	nk	Unit Miles
Unit No. 01 San	Joaquin River Rig	ht	2.78

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	05/07/2015 - 05/13/2015		11/06/2015 - 11/06/2015	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Brian Mizuno RD 2094		Brian Mizuno RD 2094	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	11/06/2015 11/06/2015	Maksim Khashchuk

LM Start		Rating **	Α	Issue No.		10	
LM End		Issue Type +	Ма	Location *		N/A	
Category	Earthen L	evee		GPS La	atituc	de/Longitude	
Calegory				Start		End	
Item	Flood Pre	paredness &		0		0	
пеш							0
DWR ID	DWR_RD2	094_01_s _ 201	3_10				
		Action/	Comme	nts			
Inspector Comments: LMA has a flood response plan available at the							
office.							

No Photos

LM Start		Rating **	Α	Issue No.		11	
LM End		Issue Type +	Ma	Location *		N/A	
Catagori Earthen Levee			GPS La	atitud	le/Longitude		
Category				Start		End	
Item	Emergency Supplies &				٥		0
пеш	Equipmen	it			٥		0
DWR ID	DWR_RD2	094_01_s _ 201	3_11				
Action/Comments							
Inspector (Inspector Comments: Supplies available on-site.						

No Photos

LM Start		Rating **	Α	Issue No.		12	
LM End		Issue Type +	Ma	Location *		N/A	
Category Earthen Levee			GPS La	atitud	le/Longitude		
Category				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals				0		0
DWR ID	DWR_RD2	094_01_s _ 201	3_12				
		Action/	Comme	nts			
Inspector (Comments	: O&M Manua	al availah	ole at I MA's	offi	Ce.	

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W: Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	11/06/2015 11/06/2015	Maksim Khashchuk

LM Start	0.08	Rating **	Α	Issue No.		6
LM End	2.78	Issue Type +	Ma	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory				Start		End
Item	Vegetatio	n		37.77168	37 °	37.749548 °
item				-121.29984	46 °	-121.288919 °
DWR ID	WR ID DWR_RD2094_01_f _ 2015_6					
Action/Comments						

Control annual grass and weeds on the levee slopes and easements.

Photo 1 of 1: FA_2015_RD2094_320_6_20151112_00005.jpg



View of the acceptable vegetation control on the landside levee slope.

LM Start	0.10	Rating **	М	Issue No.	4	
LM End	0.10	Issue Type +	En	Location *	WS	
Category Earthen Levee				GPS La	titud	le/Longitude
Calegory			Start End			
Item	Encroach	ments		37.77168	35 °	37.771685 °
iteiii		-121.300239 ° -				
DWR ID DWR_RD2094_01_s _ 2012_4						
Action/Comments						

Ramp

Inspector Comments: An access ramp has been built on the water side and extends into the channel. This could potentially alter the channel capacity. This item was also noted in the USACE comments.

Photo 1 of 1 : FA_2015_RD2094_320_4_20150910_00001.jpg



Tire marks shown onto the ramp from levee. Raised area extends to the trees in the background in the center of the photo.

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	11/06/2015 11/06/2015	Maksim Khashchuk

LM Start	0.65	Rating **	М	Issue No.		13
LM End	0.65	0.65 Issue Type + En		Location *		WS
Supplemental			GPS Latitude/Longitude			
Calegory	Category					End
Item	DWR UCI	P Field Study		37.7675	14°	37.767514 °
пеш				-121.2949	26 °	-121.294926 °
DWR ID						

Action/Comments

Inspector Comments: FS_ID:21464

DS_ID:23086 EP_NO: N/A FS_HLM: 0.66

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - walkway in poor condition and needs repair.-

electric conduit on waterside.

FIELD_STRUCT_DESC: 14-inch concrete encased steel pipe and GI conduit through the levee, 10.0 feet below the crown, pump mounted on a pile structure in the stream, slide gate, 54-inch corrugated metal pipe riser on the waterward shoulder, concrete distribution box and service pole on the landward toe, installed by USCE, 1962 (O&M Unit No. 3, . 1968)

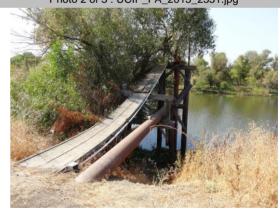
FS Date: 09/10/2013

LM Start	0.65	Rating **	М	Issue No.	13 (cont)
LM End	0.65	Issue Type +	En	Location *	WS



LS view: exposed pipe, service pole, and concrete distrinution box on levee toe.





WS view: pump on piling structure in the channel. Pipe (right- bottom) and conduit (bottom- left).

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	11/06/2015 11/06/2015	Maksim Khashchuk

LM Start	0.65	Rating **	М	Issue No.		Issue No. 13 (co		13 (cont)						
LM End	0.65	Issue Type +	En	Location *		Location *		Location *		Location *		En Location *		WS
Category			GPS Latitude/Longitude											
Calegory				Start		End								
Item	DWR UCIP Field Study			37.7675	14 °	37.767514°								
item				-121.294926 °		-121.294926 °								
DWR ID														
A - 1' 1 O 1 -														

Action/Comments

Inspector Comments: FS_ID:21464

DS_ID:23086 EP_NO: N/A FS_HLM: 0.66

Repair Type: Non-Urgent Crossing Status: Found



WS view: gate valve in CMP riser (bottom) and pipe & pump (top) on piling structure in the channel.

LM Start	1.25	Rating **	М	Issue No.		Issue No.		14
LM End	1.25	Issue Type + En Location *			WS			
Category Supplemental				GPS Latitude/Longitude				
				Start		End		
Item	DWR UCI	P Field Study		37.7605	81 °	37.760581 °		
iteiii				-121.2973	73 °	-121.297373 °		
DWR ID								

Action/Comments

Inspector Comments: FS_ID:21544

DS_ID:23087 EP_NO: N/A FS_HLM: 1.265 Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - working as drainage system during field visit. Pump was not running.- electric conduit on WS- open pipe end in CMP

riser. CMP needs cleaning.

FIELD_STRUCT_DESC: 20-inch concrete encased steel pipe through the levee, 10.0 feet below the crown, pump mounted on a pile structure in the stream, gate valve, 54-inch corrugated metal pipe riser on the waterward shoulder, concrete distribution box and service pole on the landward toe (O&M Unit No. 3, 1968)

FS Date: 09/10/2013



WS view: damaged gate valve handle in CMP riser on levee shoulder.

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	11/06/2015 11/06/2015	Maksim Khashchuk

LM Start	1.25	Rating **	М	Issue No.		14 (cont)					
LM End	1.25	1.25 Issue Type + En Location *		Location *		Location *		Location *		WS	
Category Supplemental				GPS Latitude/Longitude							
				Start		End					
Item	DWR UCI	IP Field Study		37.76058	1°	37.760581	0				
пеш				-121.29737	3°	-121.297373	٥				
DWR ID					·						

Action/Comments

Inspector Comments: FS_ID:21544

DS_ID:23087 EP_NO: N/A FS_HLM: 1.265

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - working as drainage system during field visit. Pump was not running.- electric conduit on WS- open pipe end in CMP

riser. CMP needs cleaning.

FIELD_STRUCT_DESC: 20-inch concrete encased steel pipe through the levee, 10.0 feet below the crown, pump mounted on a pile structure in the stream, gate valve, 54-inch corrugated metal pipe riser on the waterward shoulder, concrete distribution box and service pole on the landward toe (O&M Unit No. 3, 1968)

FS Date: 09/10/2013





WS view: pipe and pump on piling structure in the channel. Walkway in poor condition.

Photo 3 of 3: UCIP_FA_2015_1795.jpg



WS view: overview of pump (top) and CMP riser (bottom)

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	11/06/2015 11/06/2015	Maksim Khashchuk

LM Start	2.25	Rating **	М	Issue No.		Issue No. 15		15	
LM End	2.25	Issue Type + En		Location *		Location *		WS	
Supplemental				GPS Latitude/Longitude					
Category			Start		End				
Item	DWR UCIP Field Study			37.7522	30°	37.752230	٥		
пеш				-121.296408 °		-121.296408	٥		
DWR ID									

Action/Comments

Inspector Comments: FS_ID:41726

DS_ID:23088 EP_NO: N/A FS_HLM: 2.286

Repair Type: Non-Urgent Crossing Status: Found

Photo 1 of 3: UCIP_FA_2015_2278.jpg
Prioto 1 di 3 . UCIP_FA_2019_2218.jpg

WS view: inside view of CMP riser on levee shoulder. No slide gate found.

 LM Start
 2.25
 Rating **
 M
 Issue No.
 15 (cont)

 LM End
 2.25
 Issue Type +
 En
 Location *
 WS



WS view: slant pump on stream bank and dense vegetation on stream bank.

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	11/06/2015 11/06/2015	Maksim Khashchuk

LM Start	2.25	Rating **	М	Issue No. 15 (cor		15 (cont)	
LM End	2.25	Issue Type +	En	Location *	WS		
Category	Supplemental			GPS Latitude/Longitude			
Calegory	Category				Start		
Item	DWR UC	37.75223	30 °	37.752230	0		
item				-121.29640	08°	-121.296408	0
DWR ID							
Action/Comments							

Inspector Comments: FS_ID:41726

DS_ID:23088 EP_NO: N/A FS_HLM: 2.286

Repair Type: Non-Urgent Crossing Status: Found



WS view: slant pump (top) on stream bank and CMP riser on levee shoulder.

LM Start	2.45	Rating **	М	Issue No. 16		16	
LM End	2.45	Issue Type +	En	Location *	WS		
Category			GPS Latitude/Longitude				
Calegory	gory			Start		End	
Item	DWR UCI	P Field Study		37.7523	08 °	37.752308 °	
ILEIII				-121.2931	91 °	-121.293191 °	
DWR ID							

Action/Comments

Inspector Comments: FS_ID:21545

DS_ID:23089 EP_NO: N/A FS_HLM: 2.488 Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - no pipes found on either side of the levee.concrete distribution box on LS. Soil erosion around distrinution box. FIELD_STRUCT_DESC: Rectangular concrete distribution box on the

landward toe FS Date: 09/10/2013



LS view: erosion around a concrete standpipe on the landside toe.

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	11/06/2015 11/06/2015	Maksim Khashchuk

LM Start	2.45	Rating **	М	Issue No. 16		M Issue No. 16		16 (cont)
LM End	2.45	Issue Type +	En	Location *	Location * WS			
Supplemental			GPS Latitude/Longitude					
Category		Start		End				
Item	DWR UCIP Field Study			37.75230)8 °	37.752308 °		
пеш				-121.29319	91 °	-121.293191 °		
DWR ID								

Action/Comments

Inspector Comments: FS_ID:21545

DS_ID:23089 EP_NO: N/A FS_HLM: 2.488

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - no pipes found on either side of the levee.concrete distribution box on LS. Soil erosion around distrinution box. FIELD_STRUCT_DESC: Rectangular concrete distribution box on the

landward toe FS Date: 09/10/2013

LM Start	2.45	Rating **	М	Issue No.	16 (cont)
LM End	2.45	Issue Type +	En	Location *	WS



Enter photo 2 description or comment here.

Photo 3 of 3: UCIP_FA_2015_1798.jpg



WS view: no pipe found on waterside.

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River		0.45

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	05/07/2015 - 05/13/2015		11/06/2015 - 11/06/2015	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Brian Mizuno RD 2094		Brian Mizuno RD 2094	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

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- a) completion of the inspection
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- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.45	11/06/2015 11/06/2015	Maksim Khashchuk

LM Start	0.02	Rating **	Α	Issue No.		1	
LM End	0.43	Issue Type +	Ma	Location *	WS		
Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Itom	ltem Vegetation			37.7593	24 °	37.760603 °	
пеш				-121.299892 °		-121.306912 °	
DWR ID	DWR_RD2	094_02_f _ 201	5_1				
	Action/Comments						
Control annual grass and weeds on the levee slopes and easements.							



View of the acceptable vegetation control on the waterside levee slope.